

Gulf of Mexico Harmful Algal Bloom Bulletin

21 October 2004

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: October 18, 2004

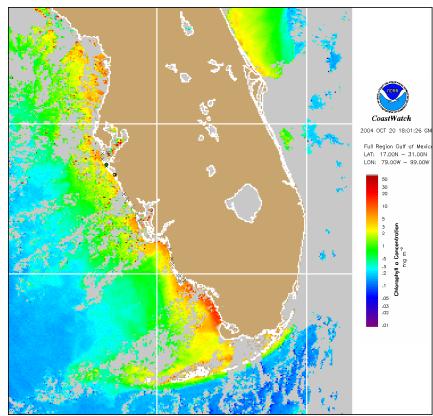
Analysis

Conditions: Patchy areas of very low harmful algae levels identified near Sarasota during October 11 - 14. Some intermittent very low impacts at the beach are possible, although unlikely, through the weekend. Analysis does not indicate harmful algae presence elsewhere in Florida.

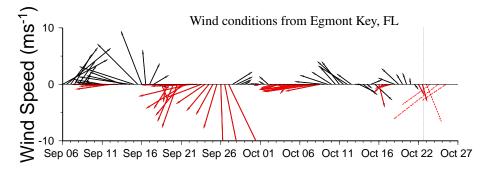
Analysis: Samples from October 11 - 14 showed a very low concentration of K. brevis near Sarasota. Upwelling favorable winds are forecasted for the weekend. This situation is conducive to an increase in K. brevis concentration and HAB formation. Satellite imagery indicates elevated chlorophyll (>7 mg/m3) near Cape Romano (81°39W, $25^{\circ}48N$), but samples from October 11 - 14 showed no K. brevis in this area.

Bronder, Fisher

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from October 10, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

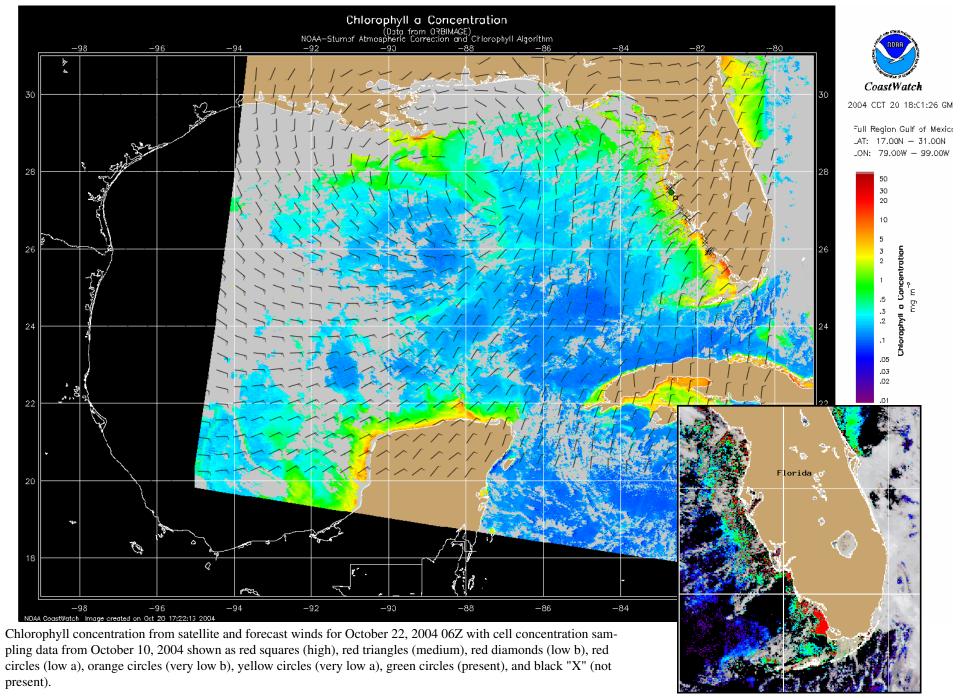
Winds have been highly variable in the Tampa Bay area over the past week. The forecast calls for north-westerly winds for today, then winds out of the northeast through the weekend.

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Blooms shown in red (see p. 1 analysis and image for interpretation)